CADENCE* LITE ATZ HERBICIDE

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

LOVELAND PRODUCTS, INC. 24-Hour Emergency Phone: 1-800-424-9300 P.O. Box 1286 • Greeley, CO 80632-1286 Medical Emergencies: 1-800-301-7976

U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: CADENCE* LITE ATZ HERBICIDE

CHEMICAL NAME: Acetochlor: 2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetanilide; Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine

CHEMICAL FAMILY: Chloroacetamide-Triazine Herbicide

EPA REG. NO.: 34704-952

MSDS Number: 000952-08-LPI MSDS Revisions: Sections 12 and 13 Date Of Issue: 07/29/08 Supersedes: 01/11/07

HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION - PRECAUCION - Si usted no entiende la etiqueta, busque a alquien para que se la explique a usted en detaile (If you do not understand the label, find someone to explain it to you in detail.) Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

This product is tan colored opaque liquid with mild aromatic odor. This product is hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Acetochlor Atrazine and related triazines Inert Ingredients, including Propylene Glycol Dichlormid	43.40 16.30 40.30	34256-82-1 1912-24-9 57-55-6 37764-25-3	0.1 mg/m³ 5 mg/m³

FIRST AID MEASURES

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an

unconscious person.

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 If in eyes:

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976. Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

FIRE FIGHTING MEASURES

>212°F / >100°C (TCC) FLASH POINT (°F/Test Method): FLAMMABLE LIMITS (LFL & UFL): Not established

EXTINGUISHING MEDIA:

Water fog, alcohol foam, carbon dioxide, dry chemical, or halogenated agents. HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, hydrogen chloride, nitrogen dioxide, and sulfur dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep

all non-essential personnel out of area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire and cool the containers, contain run-off by diking to prevent

contamination of water supplies. If heated above the flash point, heavy vapors can flow along

surfaces to distant ignition sources and flash back.

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

For small spills, absorb with an absorbent material such as sand, vermiculity or other absorbent material. Place contaminated material in appropriate containers for proper disposal. For large spills: dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, scrub the area with detergent and water and flush contaminated area thoroughly with water.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

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SOLUBILITY: Not known

pH: Not established

7. HANDLING AND STORAGE

HANDLING: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide

gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the

outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Keep container tightly closed when not in use. Do not store near seeds, fertilizer, or foodstuffs. Can be stored at

temperatures as low as -30°F / -34.4°C. Do not contaminate water, food, or feed by storage or disposal.

Personal Protective Equipment (PPE): Applicators and other handlers must wear: coveralls over long sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear (if overhead exposure), and a chemical-resistant apron when cleaning equipment, mixing, or loading, or otherwise exposed to the product's concentrate. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Refer to product label for additional information.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in

Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE

requirements may be reduced or modified as specified in the WPS.

RESPIRATORY PROTECTION: Not normally required; if vapors or mists become excessive, wear a NIOSH approved pesticide respirator with

cartridges for pesticide vapors.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear rubber chemical-resistant gloves.

OSHA PEL 8 hr TWA ACGIH TLV-TWA

Atrazine not listed 5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Tan colored opaque liquid with mild aromatic odor

SPECIFIC GRAVITY (Water = 1): 1.11 g/mlBULK DENSITY: 9.26 lbs/gal.VAPOR PRESSURE: Not establishedBOILING POINT: Not established

PERCENT VOLATILE (by volume): Not established

Note: EVAPORATION RATE: Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable CONDITIONS TO AVOID: None known

INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, hydrogen chloride, nitrogen dioxide, and sulfur dioxide may form in a

fire situation.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (male rat): 2000-5000 mg/kg
Eye Irritation (rabbit): Slight irritant

Acute Dermal LD₅₀ (rabbit): >5000 mg/kg
Skin Irritation (rabbit): Slight irritant

Inhalation LC₅₀ (rat): >6.29 mg/L (4 hrs.) Skin Sensitization (guinea pig): Acetochlor and Dichlormid have

caused sensitization.

Carcinogenic Potential: Acetochlor has caused cancer in laboratory animals. Atrazine is listed as TLV-A4 by ACGIH (Not Classifiable as a Human

Carcinogen) and 3 (Unclassifiable as to Carcinogenicity in Humans) by IARC; nothing listed in NTP, or OSHA.

12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters. Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion. Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply Atrazine to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e. well-drained.

13. DISPOSAL CONSIDERATIONS

Container Disposal: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. For packages greater than 56 gallons: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For refillable containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Pesticide wastes are toxic. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of Federal law. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED

U.S. Surface Freight Classification: COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA NFPA & HMIS Hazard Ratings: **HMIS** 2 Health 0 2 Health Least Flammability Flammability Slight 1 1 Instability Moderate 0 Reactivity 3 PPE High G 4 Severe SARA Hazard Notification/Reporting **SARA Title III Hazard Category: Immediate** Sudden Release of Pressure Fire Ν Delayed Reactive

Reportable Quantity (RQ) under U.S. CERCLA: Not listed SARA, Title III, Section 313: Atrazine (CAS: 1912-24-9) 16.3%

RCRA Waste Code: Not listed.

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

MATERIAL SAFETY DATA SHEET

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16. OTHER INFORMATION

MSDS STATUS: Sections 12 and 13 revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

This is a Restricted Use Pesticide Due To Ground and Surface Water Concerns and Oncogenicity (for retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification)

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